



GATES & DIVERTERS FOR

# FOOD & BEVERAGE

Since its founding in 1977, Vortex has designed innovative slide gates, diverters, iris diaphragms and loading chutes to improve process efficiencies across food & beverage industries. In those 40 years, Vortex solutions have been used throughout the many stages of food production – from agricultural seed production, to milling, baking, food processing, coffee & tea, brewing & distilling, packaging, and everything in between. But Vortex components are not limited to human food production. They also play a pivotal role in the production of pet food and animal feeds.





## Wye Line Diverter

### DUST TIGHT SEAL

Positive seal of dust and fine powders through closed leg

### DIVERTS AND CONVERGES

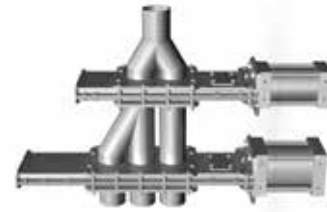
Diverts or converges material flow in pneumatic applications

### IN-LINE MAINTENANCE

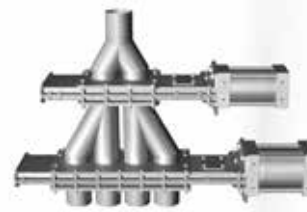
Serviceable while in-line



2-WAY CONFIGURATION



3-WAY CONFIGURATION



4-WAY CONFIGURATION

## Multi-Port Diverter

### MULTI SOURCE & MULTI DESTINATION CONVEYING

May be configured to accommodate customer requirements in handling the pneumatic flow of material from a specific number of sources to a specific number of destinations.



## Seal Tite Diverter

### UNIQUE FLOW DESIGN

Leading edge of blade protected from the material flow stream

### INTEGRAL SHAFT SEAL

Shaft seal replaces area where food spoilage or infestation normally occurs

### IN-LINE MAINTENANCE

Removeable access door for internal inspection, cleaning, or maintenance



## Orifice Gate

### SELF-CLEANING

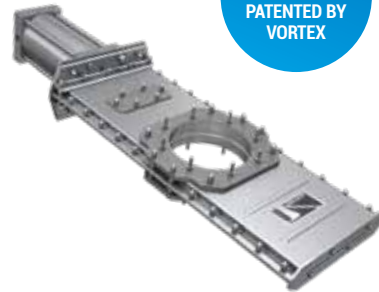
Mechanically self-cleans on opening stroke

### UNOBSTRUCTED OPENING

Seals protected from blast abrasion and material flow

### IN-LINE MAINTENANCE

Serviceable while in-line



## Valving Expertise for the Food & Beverage Industry

For food processing applications, all Vortex components are constructed using FDA- or USDA-certified stainless and carbon steels. (Add info from Mark Schaberg) Vortex offers many optional features (link to Contact Us page) tailored toward food & beverage industries.

Vortex's design philosophy is to develop products that improve process efficiency, provide easy in-line maintenance, ensure dust-free environments, self-compensate for wear, require minimal spare parts, and establish long-term reliability. As it relates to food & beverage industries, the Vortex Quantum Series is well-designed for frequent wash-downs and other sanitation processes to prevent cross-contamination and spoilage.

In food & beverage production, it is of utmost importance to create highly accurate and replicable batches. Vortex offers four material flow control assemblies to assist in accurately measuring primary ingredients.

- Infinite Variable Positioner (IVP)
- Adjustable Variable Positioner (AVP)
- Variable Position Closed (VPC)
- Variable Position Open (VPO)

Vortex components are being used worldwide by many major food & beverage brands, including AB InBev, Archer Daniels Midland (ADM), Bunge, Cargill, Kellogg's, Kraft, Nestle, PepsiCo, Proctor & Gamble (P&G), and Unilever, among others.

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## Gravity Vee Diverter

### INDEPENDANT FLOW CONTROL

Two independant actuators allow material to be shut off at the diverter as well as material flow to either destination, or both destinations at once.



## Roller Gate

### DUST TIGHT SEAL

Positive seal of dust and fine powders

### IN-LINE MAINTENANCE

Serviceable while in-line

### SAFE OPERATION

Valve has no pinch points or exposed moving parts



## Fill Pass Diverter

### STACKABLE BATCH CONVEYING

Designed to convey material to individual bins within a closed-loop conveying system. Diverters may be stacked to accommodate different materials conveyed to the same bin.



## Clear Action Gate

### SELF CLEANING ACTION

Self cleans on closure to reduce material build-up

### POSITIVE SEAL

Positive seal across the valve and to atmosphere

### ACCURATE METERING

Accurate metering of materials with optional metering controls



## HDPV2 Gate

### RISING BLADE DESIGN

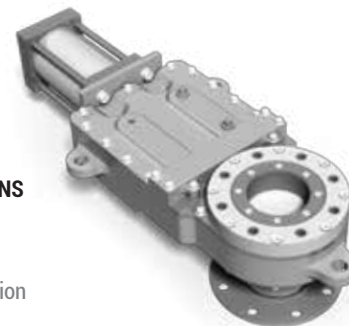
Sealing is on top of the blade, No jamming or packing of material into an end seal

### HIGHER PRESSURE APPLICATIONS

3-5 barg (depending on size)

### PRESSURIZED BONNET

Reduces fine material accumulation inside the body of the valve



## Maintenance Gate

### MANUAL SHUT OFF

Gate stops the flow of material when downstream product maintenance is required or an upset condition occurs



## Flex Tube Diverter

### ELIMINATE CROSS CONTAMINATION

Unique tube design isolates material to the off leg

### 2 OR 3-WAY CONFIGURATIONS

Diverts or converges material flow

### SEALS PROTECTED FROM WEAR

Seals are not exposed to material stream

### NO PINCH POINTS

Enclosed housing protects workers from internal moving parts





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